AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-13. Cancelled.

14. **(Currently Amended)** A methodMethod for the production of a cast component, in particular a gas turbine component, with the following stepscomprising the steps of:

a) Provision of providing a melting crucible and at least one semi-finished product made of an intermetallic titanium-aluminum material;

b) Melting melting of the semi-finished product or each semi-finished product made of the intermetallic titanium-aluminum material in the melting crucible;

c) Adding adding of a plurality of additional elements or additional compounds to the molten mass in successively in timesuccession depending on their melting temperature, wherein at least one element and/or one compound with a high melting point is added to the molten mass first, followed by at least one further element and/or one further compound with a lower melting point,

d) Provision ofproviding a casting mold;

e) Pouring pouring the molten mass into the casting mold;

f) Hardening hardening of the molten mass in the casting mold; and

g) Removal ofremoving the cast component from the casting mold.

15. **(Currently Amended)** Method The method according to claim 14, wherein characterized in that refractory additional elements or compounds are added first to the molten mass, followed by volatile additional elements or compounds and, and then, if necessary, fine materials.

16. (**Currently Amended**) ~~Method~~ The method according to claim 15, wherein ~~characterized in that the elements~~ tungsten, tantalum, niobium and, if necessary, titanium or alloys of these elements are added as refractory additional elements to the molten mass.

17. (**Currently Amended**) ~~Method~~ The method according to claim 15, wherein ~~characterized in that~~ manganese or an alloy of this element is added as volatile additional element to the molten mass.

18. (**Currently Amended**) ~~Method~~ The method according to claim 15, wherein ~~characterized in that~~ titanium boride is added as fine material to the molten mass.

19. (**Currently Amended**) ~~Method~~ The method according to claim 14, wherein ~~characterized in that the~~ element or each element and/or the compound or each component is added to the molten mass in defined doses and/or amounts, wherein the respective dose and/or amount is measured such that, ~~assuming~~ a molten mass temperature prior to the addition is attained within 15 minutes after the addition when the temperature after the addition is ~~, the temperature is always~~ greater than 1550° C ~~after the addition, and the temperature before the addition will be reached again after a maximum of 15 minutes~~.

20. (**Currently Amended**) The method ~~Method~~ according to claim 14, wherein ~~characterized in that~~ the additional element or each additional element and/or the additional compound or each additional compound is added to the molten mass in defined doses and/or amounts, wherein the respective dose and/or amount has a maximum weight of 250 g at an element and/or compound density of greater than 6 g/cm^3.

21. (**Currently Amended**) The method~~Method~~ according to claim 14, wherein ~~characterized in that~~ the additional element or each additional element and/or the additional compound or each additional compound is added to the molten mass in defined doses and/or amounts, wherein the respective dose and/or amount has a maximum weight of 50 g at an element and/or compound density of less than 6 g/cm^3.

22. (**Currently Amended**) The method~~Method~~ according to claim 14, wherein ~~characterized in that~~ the additional element or each additional element and/or the additional compound or each additional compound is added to the molten mass in a ~~defined, flow-~~optimized geometry.

23. (**Currently Amended**) The method~~Method~~ according to claim 22, wherein ~~characterized in that~~ the ~~flow-~~optimized geometry enables good transportation of the element or each element or the compound or each compound within the molten mass.

24. (**Currently Amended**) ~~Method~~ The method according to claim 14, wherein ~~characterized in that~~, during the melting process, the melting crucible is inductively warmed up and/or heated ~~and with this also~~along with the semi-finished product or each semi-finished product and the element or each element, as well as the compound or each compound ~~to be melted~~ in the melting crucible.